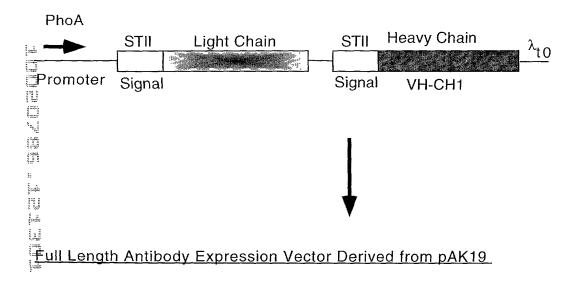
Fab Expression Vector pAK19



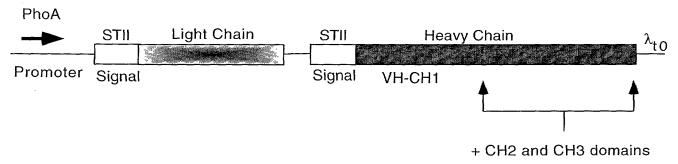


Figure 1

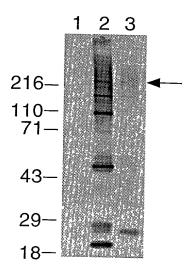


Figure 2

Polycistronic Constructs

AP prom	noter STII	light chain	STII	heavy chain	λto trans. term.
	TIR		TIR		
	1		1	paTF20	
Company Company Company Company	3		1	paTF30	
	1		3	paTF40	
8)	3		3	paTF90	
	7		3	paTF110	
	3		7	paTF100	
g magn.	7		7	paTF120	

Figure 3.

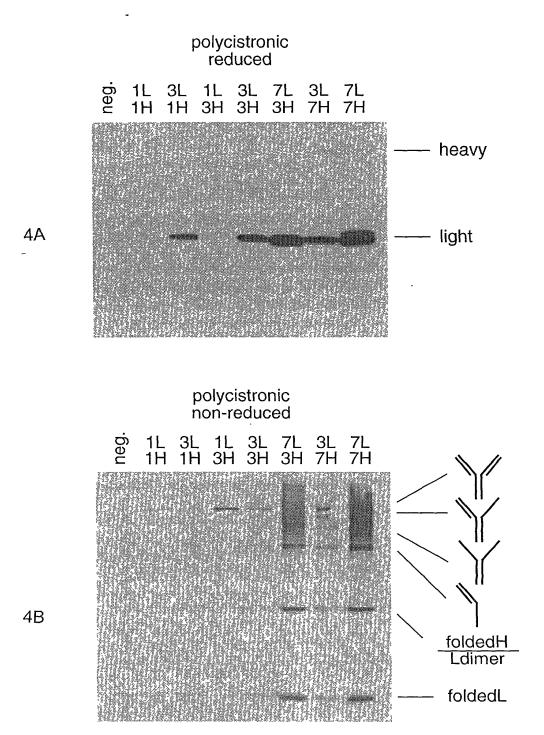
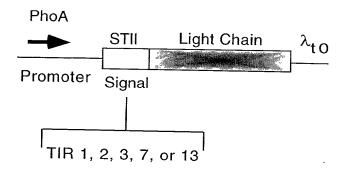


Figure 4

Light Chain Constructions



Heavy Chain Constructions

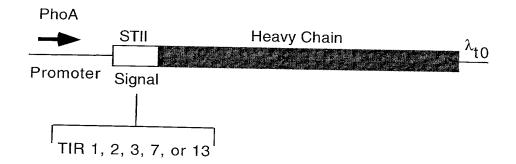


Figure 5

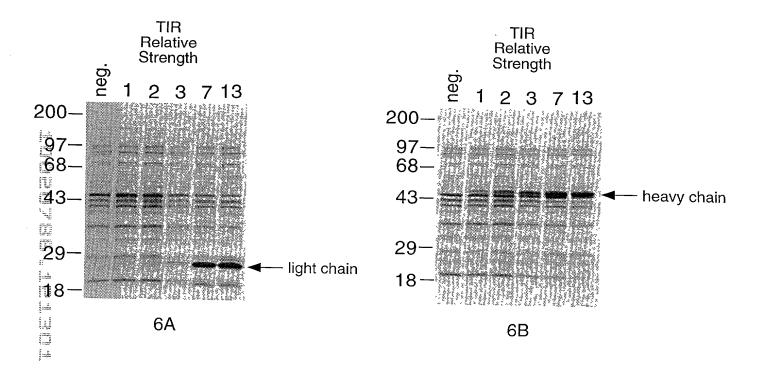


Figure 6

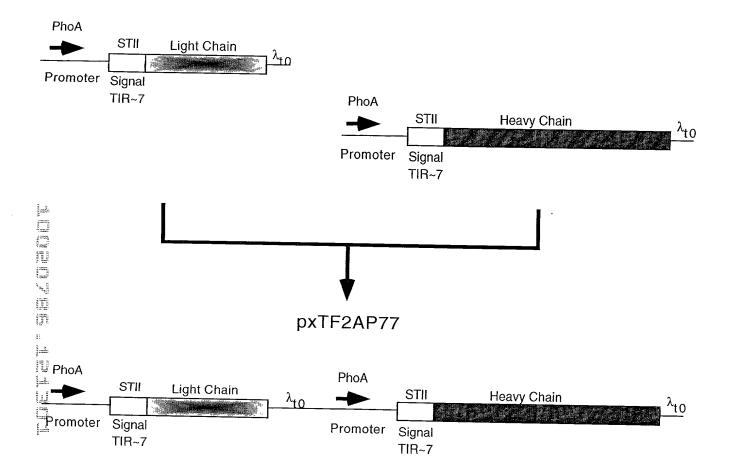


Figure 7

The state of the s

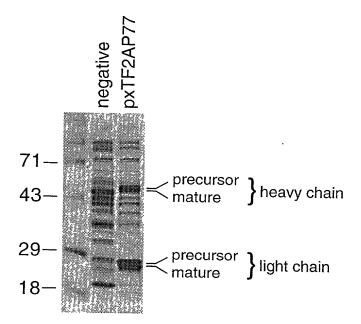


Figure 8

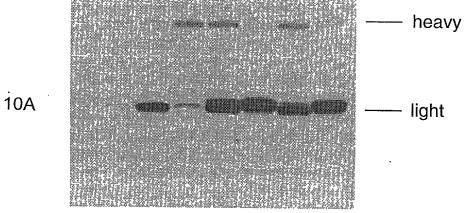
Separate Cistron Constructs

AP promoter	STII	light chain	λ to trans. term.		STII	heavy chain	λ to trans. term.
		-	· · · · · · · · · · · · · · · · · · ·				
	TIR			7	ΓIR		
The first than the fi	1			•	1	paTF50	
5: 5	3				1	paTF70	
	1			;	3	paTF60	
	3			;	3	paTF80	
•	7			•	3	paTF130	
3	3			7	7	paTF140	
7	7			7	7	pxTF2AP77	

Figure 9

separate cistrons reduced

ਲੇ 1L 3L 1L 3L 7L 3L 7L □ 1H 1H 3H 3H 3H 7H 7H



separate cistrons non-reduced

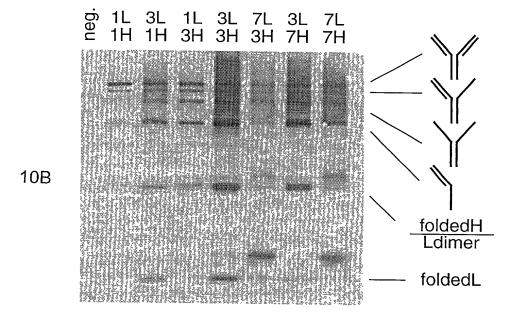
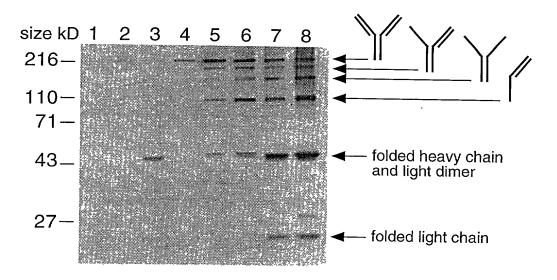


Figure 10



- 1) negative control
- 2) TIR 1-light, TIR 1-heavy, polycistronic
- 3) TIR 3-light, TIR 1-heavy, polycistronic
- 4) TIR 1-light, TIR 3-heavy, polycistronic
- 5) TIR 1-light, TIR 1-heavy, separate cistrons
- 6) TIR 1-light, TIR 3-heavy, separate cistrons
- 7) TIR 3-light, TIR 1-heavy, separate cistrons
- 8) TIR 3-light, TIR 3-heavy, separate cistrons

Figure 11

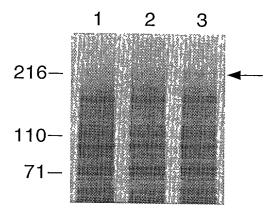


Figure 12

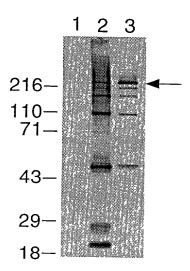


Figure 13

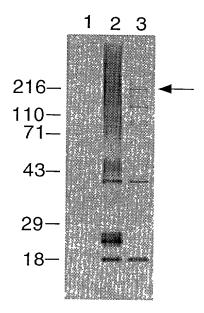


Figure 14

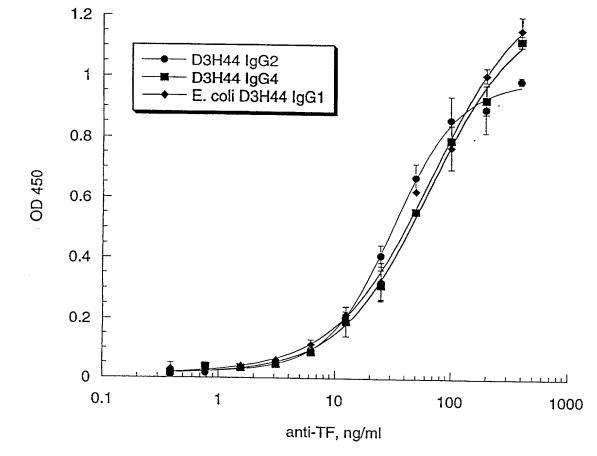


Figure 15

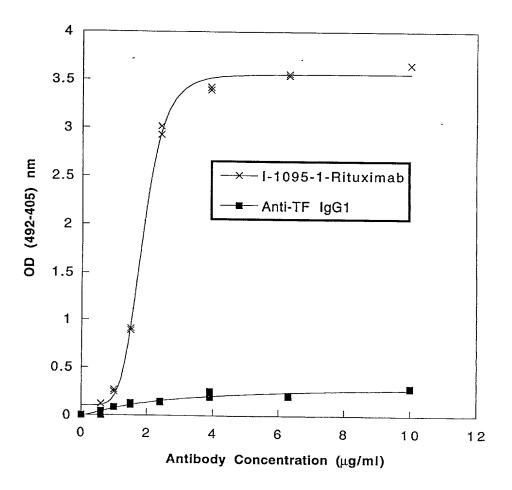


Figure 16

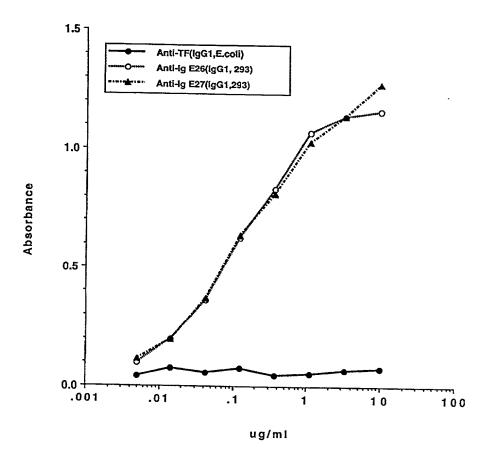


Figure 17

Figure 18

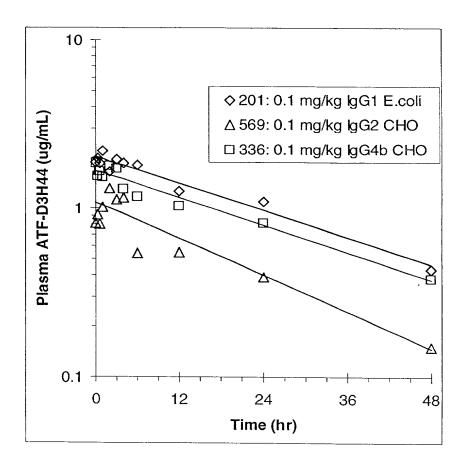


Figure 19

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- AGCTITGGAG AITATCGICA CIGCAAIGCI ICGCAAIAIG GCGCAAAAIG ACCAACAGGG GIIGAITGAI CAGGIAGAGG CTIGACACAC GCGTCCATCT ICGAAACCTC TAAIAGCAGI GACGITACGA AGCGITATAC CGCGITTTAC IGGITGICGC CAACTAACIA GICCAICTCC CGCAGGTAGA 101
- GGGGGCTGTA CAGGGTAAAG CCCGATGCCA GCATTCCTGA CBACGATACG GAGCTGCTGC GCGATTACGT AAAGAAGTTA TIGAAGCATC CTCGTCAGTA CCCGGGACAT GCTCCATTIC GGGCTACGGT CGTAAGGACT GCTGCTAIGC CTCGACGACG CGCTAATGCA TTTCTTCAAT AACTTCGTAG GAGCAGTCAT 201
- 301 AAAAGITAAT CITITCAACA GCIGICAIAA AGIIGICACG GCCGAGACII AIAGICGCII IGIITIIAIT ITITAAIGIA ITIGIAACIA GIACGCAAGI TTITCAATTA GAAAAGTIGT CGACAGTAIT TCAACAGIGC CGGCICIGAA TAICAGCGAA ACAAAAATAA AAAATTACAT AAACAITGAI CAIGCGTICA
- AGTSCATTIT TCCCATAGAT CTTAATACIT CTTCTTATAG CGTAAAGAAG AACGTAGATA CAAGCAAAAA AGATAACGAT GTTTGCGCAT GCGACTATAG 401 TCACGIAAAA AGGGIAICIA GAAITAIGAA GAAGAAIAIC GCAITICIIC IIGCAICIAI GIICGIIIII ICIAIIGCIA CAAACGCGIA CGCIGAIAIC Anti-Tissue Factor Light Chain^ F V F S I A T N A Y S S AFLL ^STII Signal Sequence TIR~1 K N I M
- GAGGGACAGG CGGAGACACC CGCTATCCCA GTGGTAGTGG ACGTCTCGGT CAGCGCTGTA GTTCTCGATA GACTTGACCA 501 CAGATGACCC AGTCCCCGAG CTCCCTGTCC GCCTCTGTGG GCGATAGGGT CACCATCACC TGCAGAGCCA GTCGCGACAT CAAGAGCTAT CTGAACTGGT K S Y R D I CRAS T T D R V A S V G SILS GICTACTGGG TCAGGGGCTC S C S
- 601 ATCAACAGAA ACCAGGAAAA GCTCCGAAAG TACTGATTTA CTATGCTACT AGTCTCGCTG AAGGAGTCCC TTCTCGCTTC TCTGGATCCG GTTCTGGGAC TICCICAGGG AAGAGGGAAG AGACCTAGGC CAAGACCCIG SGT S G S G S R F G V P TCAGAGCGAC SLAE CGAGGCTTTC ATGACTAAAT GATACGATGA Y A T LIY APKV TGGTCCTTTT ß TAGTIGICTL × 0 9
- GCAGTCTGCA GCCAGAAGAC TTCGCAACTT ATTACTGTCT TCAGCACGGA GAGTCTCCAT GGACATTTGG ACAGGGTACC CGTCAGAGGT CGGTCTTCTG AAGCGTTGAA TAATGACAA AGTCGTGCCT CTCAGAGGTA CCTGTAAACC TGTCCATGG T F E S P W C E YCL 701 GGATTACACT CTGACCATCA GCAGTCTGCA GCCAGAAGAC TTCGCAACTT F A T Y PED o I S GACTGGTAGT LTIS CCTAATGTGA 93
- TICCACCICT AGITIGCITG ACACCGACGI GGIAGACAGA AGIAGAAGGG CGGIAGACIA CICGICAACI TIAGACCIIG ACGAAGACAA CACACGGACG TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT GAGCAGTTGA AAICTGGAAC TGCTTCTGTT GTGTGCCTGC A S V SGT E O L K P S D I F P P S V F V A A 301 AAGGTGGAGA TCAAACGAAC K R T 126 K V E I
- 901 TGAMTAACTT CTATCCCAGA GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT GTCACAGAGC AGGACAGCAA ACTTATTGAA GATAGGGTCT CTCCGGTTTC ATGTCACCTT CCACCTATTG CGGGAGGTTA GCCCATTGAG GGTCCTCTCA CAGTGTCTCG TCCTGTTCGTT 160 N N F Y P R B A K V Q W K V D N A L Q S G N S Q B S V T B Q D S K
- CCTGTCGTGG AIGTCGGAGT CGTCGTGGGA CTGCGACTCG TTTCGTCTGA TGCTCTTTGT GTTTCAGATG CGGACGCTTC AGTGGGTAGT CCCGGACTCG .001 GGACAGCACC TACAGCCTCA GCAGCACCCT GACGCTGAGC AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA GGGCCTGAGC ACEV K V Y Е К Н KADY T I S ST Y S L S
- 1101 TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTTAAT TAAATCCTCT ACGCCGGACG CATCGTGGGG AGCTCGGTAC CCGGGGATCT AGGCCTAACG AGCGGGCAGT GTTTCTCGAA GTTGTCCCCT CTCACAATTA ATTTAGGAGA TGCGGCCTGC GTAGCACCGC TCGAGCCATG GGCCCCTAGA TCCGGAATTGC C O N R G X S Λ d S

- 1201 CTCGGTTGCC GCCGGGCGTT TTTTAITGTT GCCGACGCGC ATCTCGAATG AACTGTGCG GCAGGTAGAA GCTTTGGAGA TTATCGTCAC TGCAATGCTT GAGCCAACGG CGGCCGGCAA AAAATAACAA CGGCTGCGCG TAGAGCTTAC TTGACACACG CGTCCATCTT CGAAACCTCT AATAGCAGTG ACGTTACGAA
- CTGCTATGCC GGCAATATGG GGCAAAATGA CCAACAGGGG TTGATTGATC AGGTAGAGGG GGCGCTGTAC GAGGTAAAGC CCGATGCCAG CATTCCTGAC GGCTATATACC GCGTTATACC GGTTGTCGCC AACTAACTAG TCCATCTCCC CCGCGACATG CTCCATTTCG GGCTACGGTC GTAAGGACTG
- AGCTGCTGCG CGATTACGTA AAGAAGTTAT TGAAGCATCC TCGTCAGTAA AAAGTTAATC TTTTCAACAG CTGTCATAAA GTTGTCACGG CCGAGACTTA TCGACGACGC GCTAATGCAT TICTTCAATA ACTTCGTAGG AGCAGTCATT TITCAATTAG AAAAGTTGTC GACAGTATTT CAACAGTGCC GGCTCTGAAT 1401
- TAGTCGCTTT GTTTTTATTT TTTAATGTAT TTGTAACTAG TACGCAAGTT CACGTAAAA GGGTATCTAG AATTATGAAG AAGAATATCG CATTTCTTCT ATCAGCGAAA CAAAAATAAA AAATTACATA AACATTGATC ATGCGTTCAA GTGCATTTT CCCATAGATC TTAATACTTC TTCTTATAGC GTAAAGAAGA MKKNIAFLL STII Signal Sequence TIR~1 1501
- 1601 IGCAICTAIG ITCGITITIT CIAITGCIAC AAACGCGIAC GCIGAGGITC AGCIGGIGGA GICIGGCGGI GGCCIGGIGC AGCCAGGGGG CICACTCCGI GAGTGAGGCA S ACGIAGAIAC AAGCAAAAAA GAIAACGAIG ITIGCGCAIG CGACICCAAG ICGACCACCI CAGACCGCCA CCGGACCACG ICGGICCCCC D C G L V Q A E V Q L V E S G G G Anti-Tissue Factor Heavy Chain N A Y I A T F V F S Σ A S
- TTGATTGATC CCAGGCAGTC CGGGGCCCAT TCCCGGACCT TACCCAACCT AACTAACTAG LIDP ITGICCIGIG CAGCIICIGG CIICAAIAIT AAGGAGIACI ACAIGCACIG GGICCGICAG GCCCCGGGIA AGGGCCIGGA AIGGGITGGA W < G L E A P G K VRQ AACAGGACAC GTCGAAGACC GAAGTTATAA TTCCTCATGA TGTACGTGAC M H W KEYY FN A S G LSCA 1701 43
- TGAACAGCCT ACTIGICGGA CAACACGATC TATGACCCGA AGTTCCAGGA CCGTGCCACT ATAAGCGCTG ACAATTCCAA AAACACAGCA TACCTGCAGA ATGGACGTCT TTTGTGTCGT NTN TATICGCGAC IGTIAAGGII N S I S A D GGCACGGTGA R A T GTTGTGCTAG ATACTGGGCT TCAAGGTCCT F O D YDPK N T I 1801 CAGAGCAAGG GICICGIICC
- GAGCCGGAGG S S CCTTGGGACC AGTGGCAGAG GGAACCCTGG TCACCGTCTC G T L V ACTICGACIA CIGGGGICAA TGAAGCTGAT GACCCCAGTT დ დ F D Y ACGCCCCCTT CTGTGACGGC AGATAATAAC ACGAGCTCTG TGCCGGCGAA T A A Y TCTATTATTG TGCTCGAGAC A R D YYC DTAV GACACTGCCG CGCACGACTC GCGTGCTGAG 110 R A E 1901
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- CGGGTTTAGA AAGGIGGACA AGAAAGIIGA GCCCAAAICI TICCACCIGI ICTITCAACT K V E K V D K ATCACAAGCC CAGCAACACC AGAICGICGA ACCCGIGGGI CIGGAIGIAG ACGIIGCACI TAGIGIICGG GICGIIGIGG N I H K TCTAGCAGCT TGGGCACCCA GACCTACATC TGCAACGTGA CNVN T Y I G T Q 7 S S S CTGACACGGG 2201 GACTGTGCCC T V P
- ACCCAAGGAC ACCCTCATGA TGGGTTCCTG Ω TCCCCCCAAA CAGAAGGAGA AGGGGGGTTT P P K GTCTTCCTCT VFI GGTCGTGGAC TTGAGGACCC CCCTGGCAGT P A P E L L G G P S CTCACACATG CCCACCGTGC CCAGCACCTG AACTCCTGGG GGGACCGTCA GGGTGGCACG (GAGTGTGTAC H T C ACACTGTTTT 2301 TGTGACAAAA
- 2401 TUTCCCGGAC CCUTGAGGTC ACATGCGTGG TGGTGGACGT GAGCCACGAA GACCCTGAGG TCAAGTTCAA CTGGTACGTG GACGGCGTGG AGGTGCATAA AGAGGGCCTG GGGACTCCAG TGTACGCACC ACCACCTGCA CTCGGTGCTT CTGGGACTCC AGTTCAAGTT GACCATGCAC CTGCCGCACC TCCACGTATT S R T P B V T C V V V D V S H B D P E V K F N W Y V D G V E V H N

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ACAGGIGIAC ACCCIGCCCC IGICCACATG IGGGACGGGGG d d T L Q V Y CCCGAGAACC GAGGITICGG TITCCCGICG GGGCICIIGG R E P CTCCAAAGCC AAAGGGCAGC K G Q P SKA AGAAAACCAT TCTTTTGGTA ХТТ GCCCCCATCG CGGGGGTAGC ы A P I TCGGGAGGGT AGCCCTCCCA Д A L TCTCCAACAA TICACGIICC AGAGGIIGII SNK 2601 AAGTGCAAGG 343 K C K V

GAGTGGGAGA GCAATGGGCA CICACCCICI CGITACCCGI EWES AAGAACCAGG TCAGCCTGAC CTGCCTGGTC AAAGGCTTCT ATCCCAGCGA CATCGCCGTG TTCTTGGTCC AGTCGGACTG GACGGACCAG TTTCCGAAGA TAGGGTCGCT GTAGCGGCAC I A V P S D K G F Y C L V SLT K N Q V 2701 CATCCCGGGA AGAGATGACC TCTCTACTGG E W GTAGGGCCCT R E တ 377

ACAAGAGCAG GIGGCAGCAG CGGCCTCTTG TTGATGTTCT GGTGCGGAGG GCACGACCTG AGGCTGCCGA GGAAGAAGA GATGTCGTTC GAGTGGCACC TGTTCTCGTC CACCGTCGTC K S R CTCACCGTGG LTVD CCTTCTTCCT CTACAGCAAG Y S K F F L S D G S TCCGACGGCT CGTGCTGGAC V L D CCACGCCTCC T P 2801 GCCGGAGAAC AACTACAAGA NYKT 410 P E N

CCCTIGCAGA AGAGIACGAG GCACIACGIA CICCGAGACG IGIIGGIGAI GIGCGICIIC ICGGAGAGGG ACAGAGGCCC AIIIAIICGI ACGCIGCCGG TAAATAAGCA TGCGACGGCC ACAACCACTA CACGCAGAAG AGCCTCTCCC TGTCTCCGGG S G SIS F O F λ H N 2901 GGGAACGICT TCTCATGCIC CGTGATGCAT GAGGCTCTGC E A L H V M H S C S G N V F 443

AATGCGGTAG TTTATCACAG GATCTCAGGG ATTGCGAGCC AACGGCGGCC CGCAAAAAT AACAATTGAG TACAAACTGT CGAATAGTAG CTATTCGAAA TTACGCCATC AAATAGTGTC CIAGAGICCC TAACGCICGG IIGCCGCCGG GCGITITITA ITGITAACIC AIGITIGACA GCITAICAIC GAIAAGCITI 3001

CATCGTCATC CTCGGCACCG TCACCCTGGA TGCTGTAGGC ATAGGCTTGG GTAGCAGTAG GAGCCGTGGC AGTGGGACCT ACGACATCG TATCCGAACC CATCGTCATC CTCGGCACCG Start Tet Resistance Coding Sequence ACAATGCGCT TGTTACGCGA GGCACCGTGT ATGAAATCTA CCGTGGCACA TACTTTAGAT AACGCAGTCA . TTAAATTGCT 3101

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- 1 GAAITCAACT TCTCCATACT ITGGAIAAGG AAATACAGAC AIGAAAAATC TCATIGCTGA GTTGTTATTT AAGCTTGCCC AAAAGAAGA AGAGTCGAAT CTTAAGTTGA AGAGGTATGA AACCTAITCC TTTAIGTCTG TACTTTTTAG AGTAACGACT CAACAATAAA TTCGAACGGG TTTTCTTCT TCTCAGCTTA
- TCGCAATATG GCGCAAAATG ACCAACAGCG GTTGATTGAT CAGGTAGAGG CITGACACAC GCGICCAICI ICGAAACCIC IAAIAGCAGI GACGIIACGA AGCGIIAIAC CGCGIIIIAC IGGIIGICGC CAACIAACIA GICCAICICC AGCTITGGAG ATTATCGTCA CTGCAATGCT CGCAGGTAGA 101
- CGAGGTAAAG CCCGATGCCA GCATTCCTGA CGACGATACG GAGCTGCTGC GCGATTACGT AAAGAAGTTA ITGAAGCATC CTCGTCAGTA CCCGCGACAI GCICCAITIC GGGCTACGGI CGIAAGGACT GCIGCIAIGC CICGACGACG CGCIAAIGCA ITICIICAAI AACIICGIAG GAGCAGICAI 201
- 301 AAAAGITAAT CITIICAACA GCIGICAIAA AGTIGICACG GCCGAGACII AIAGICGCII IGIITITAII IIITAAIGIA ITIGIAACIA GIACGCAAGI ITTICAATTA GAAAAGITGI GGACAGTAIT ICAACAGIGC CGGCICIGAA TATCAGCGAA ACAAAAATAA AAAATTACAI AAACATIGAI CAIGCGITCA
- 401 TCACGTAAAA AGGGTATCTA GAATTATGAA GAAGAATATC GCATTTCTTC TTGCATCTAT GTTCGTTTTT TCTATTGCTA CAAACGCGTA CGCTGATATC AGTGCATTTT TCCCATAGAT CTTAATACTT CTTCTTATAG CGTAAAGAAG AACGTAGATA CAAGCAAAAA AGATAACGAT GTTTGCGGAT GGACTATAG Anti-VEGF Light chain SIATNAY F V F AFLL M K K N I A STII Signal TIR ~1 ×
- 501 CAGITGACCC AGICCCCGAG CICCCIGICC GCCICIGIGG GCGAIAGGGI CACCAICACC IGCAGCGCAA GICAGGAIAI IAGCAACIAI IIAAACIGGI CGGAGACACC CGCTATCCCA GTGGTAGTGG ACGTCGCGTT CAGTCCTATA ATCGTTGATA AATTTGACCA C S A S T I T D R V A S V G GTCAACTGGG TCAGGGGCTC GAGGGACAGG SILS
- CAAGACCCTG TTCTCGCTTC TCTGGATCCG S G S S R F TCTCTCCACT CTGGAGTCCC AGAGAGGTGA GACCTCAGGG d A S H H GCTCCGAAAG TACTGATTTA CTTCACCTCC CGAGGCTTTC ATGACTAAAT GAAGTGGAGG F T S r ı X APKV TGGTCCTTTT ACCAGGAAAA P G K 501 ATCAACAGAA TAGTIGICTT × 0 9
- CGTCAGACGT CGGTCTTCTG AAGCGTTGAA TAATGACAGT TGTCATATCG TGGCACGGCA CCTGCAAACC TGTCCCATGG GGACGITIGG ACAGGGIACC T F G T V P W ATTACTGTCA ACAGTATAGC ACCGTGCCGT o Y s X C D CTGACCATCA GCAGTCTGCA GCCAGAAGAC TTCGCAACTT F A T Y PED SLO GACTGGTAGT LTIS 701 GGATTICACT CCTAAAGTGA 93
- ITCCACCICT AGITIGCITG ACACCGACGT GGTAGACAGA AGTAGAAGGG CGGTAGACTA CTCGTCAACT TIAGACCTIG ACGAAGACAA CACACGGACG TGTGGCTGCA CCATCTGTCT TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCTTCTGTT GTGTGCCTGC K) SGT EQLK P S D I F P S V F V A A 801 AAGGTGGAGA TCAAACGAAC K R T 126 K V E I
- GICACAGAGC AGGACAGCAA CAGTGTCTCG TCCTGTCGTT VTEQ 901 TGAATAACIT CTATCCCAGA GAGGCCAAAG TACAGTGGAA GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGAGAGT CGGGAGGTTA GCCCATTGAG GGTCCTCTCA S N S ALQS CTCCGGTTTC ATGTCACCTT CCACCTATTG N O N EAKV ACTIAITGAA GAIAGGGICI Y P R
- CCCGGACTCG TCACCCATCA GGGCCTGAGC CCTGICGIGG AIGICGGAGI CGICGIGGGA CIGCGACICG TITCGICIGA IGCICITIGI GIITCAGAIG CGACGCITC AGIGGGIAGI 1001 GGACAGCACC TACAGCCTCA GCAGCACCCT GACGCTGAGC AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG ACEV E K K A D Y I I ST
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- GACGATACGG CIGCIAIGCC GUETTATACC GCGTTTTACT GGTTGTCGCC AACTAACTAG TCCATCTCCC CCGCGACATG CTCCATTTCG GGCTACGGTC GTAAGGACTG CCGATGCCAG CATTCCTGAC AGGIAGAGGG GGCGCTGIAC GAGGIAAAGC TIGALIGAIC CGCAATATGG CGCAAAATGA CCAACAGCGG 1301
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- TAGICGCTIT GITITIAITI ITTAAIGIAI ITGTAACTAG TACGCAAGIT CACGTAAAA GGGTAICTAG AATTATGAAG AAGAATATCG CAITTCTTCT ATCAGCGAAA CAAAAATAAA AAAITACAIA AACATTGAIC AIGCGTICAA GIGCAITITI CCCAIAGAIC ITAAIACITC ITCTIAIAGC GIAAAGAAGA M K K N I A 1501 TAGTCGCTTT GTTTTATTT TTTAATGTAT TTGTAACTAG

STII Signal TIR-1

- TGCAICTAIG ITCGITITIT CIAITGCTAC AAACGCGIAC GCTGAGGITC AGCTGGTGGA GICTGGCGGI GGCCTGGIGC AGCCAGGGGG CICACTCCGI ACGTAGATAC AAGCAAAAA GATAACGATG TTTGGGCATG CGACTCCAAG TCGACCACT CAGACCGCCA CCGGACCACG TCGGTCCCCC GAGTGAGCACA A S M F V F S I A T N A Y A E V Q L V E S G G G L V Q P G G S L R A E V Q L V E S
 Anti-VEGF Heavy Chain 1601
- TACCCAACCT ACCTAATIGI TGGATTAACA ACGCACTACG GTATGAACTG GGTCCGTCAG GCCCCGGGTA AGGGCCTGGA ATGGGTTGGA W C CTACGACITC ACGCACIACG GTATGAACTG GGTCCGICAG GCCCCGGGTA AGGGCCTGGA GATGCTGAAG TGCGTGATGC CATACITGAC CCAGGCAGTC CGGGGCCCAI TCCCCGGACCT GLE A P G K V R M N M T H Y G Y D F AACAGGACAC GTCGAAGACC CAGCTTCTGG A S 1701 TTGTCCTGTG 43 L S C A
- GGATAIGGCC ACTIGGCIGG ATACGACGCC IAAAGITIGC AGCAAAGIGA AAAAGAAAIC IGIGGAGGIT TICGIGICGI AIGGACGICT ACTIGIGGA Y I G B P I Y A A D F K R R F I F S L D I S K S I A Y L Q M N S L TACCTGCAGA TGAACAGCCT TGAACCGACC TAIGCTGCGG ATTTCAAACG TCGTTTCACT TTTTCTTTAG ACACCTCCAA AAGCACAGCA 1801 CCTATACCGG 77
- AACCCTGGTC TTGGGACCAG 卢 ACGGCACGAG CCACTGGTAT TTCGACGTCT GGGGTCAAGG CGCGCGACTC CTGTGACGGC AGATAATGAC ACGTTTCATG GGCATGATAA TGCCGTGCTC GGTGACCATA AAGCTGCAGA CCCCAGTTCC ව ඊ ව F D V W н м ұ G T S CCGTACTATT PYY TCTATTACTG TGCAAAGTAC A K YY GACACTGCCG DTAV 1901 GCGCGCTGAG R A E
- ACGGACCAGT CLV COGCCICCAC CAAGGGCCCA ICGGICTICC CCCIGGCACC CICCICCAAG AGCACCICIG GGGGCACAGC GGCCCIGGGC CCCCGTGTCG CCGGGACCCG A L G G T A TCGTGGAGAC O STS TGGCAGAGGA GCCGGAGGTG GTTCCCGGGT AGCCAGAAGG GGGACCGTGG GAGGAGGTTC S R ഗ L A P S V F K G G A S T 2001 ACCGTCTCCT T V S 143
- CAGGACTCTA GTCCTGAGAT Ü CCCGGCTGTC CTACAGTCCT GGCCGACAG GATGTCAGGA LQSS P A V 2101 AGGACTACTT CCCCGAACCG GTGACGGTGT CGTGGAACTC AGGCGCCCTG ACCAGGGGG TGCACACTT TCCTGATGAA GGGGCTTGGC CACTGCCACA GCACCTTGAG TCCGCGGGAC TGGTCGCCGC ACGTGTGGAA H T F T S G V G A L M N s N Д ы 177
- GGTGGACAAG GCAACACCAA CGTTGTGGTT ъ CACAAGCCCA GTGTTCGGGT н CCTACATCTG CAACGTGAAT GTTGCACTTA z N GACACGGGAG ATCGTCGAAC CCGTGGGTCT GGATGTAGAC YIC E O GGCACCCAGA E C CIGIGCCCIC IAGCAGCITG S I တ ra S > AGCGTGGTGA TCGCACCACT SVVT CTCCCTCAGC GAGGGAGTCG , S တ 2201 210
- CCCCCAAAAC CIICCICITC GAAGGAGAAG GACCGTCAGT CTGGCAGTCA РЅ CICCIGGGGG GAGGACCCCC LIGG AGCACCTGAA TCGTGGACTT A P E TGACAAAACT CACACAIGCC CACCGIGCCC GTGGCACGGG P C P GIGIGIACGG HTCP ACTGTTTTGA D K T CCAAATCITG GGTTTAGAAC 2301 AAAGTTGAGC TTTCAACTCG K V E P 243
- GGGACTCCAG TTCAAGTTGA CCATGCACCT CCCTGAGGTC AAGTTCAACT PEV GGAGTACTAG AGGGCCTGGG GACTCCAGTG TACGCACCAC CACCTGCACT CGGTGCTTCT GTGGACGTGA GCCACGAAGA H E D V D V S TCCCGGACCC CTGAGGTCAC ATGCGTGGTG C V V E V T SRTP CCTCATGATC LMI 2401 CCAAGGACAC GGTTCCTGTG K D T 277

- GEOGGACCIE CACGIAITAC GGITETGITI EGGEGEEETE CIEGICATGI IGIEGIGEAI GGEACACEA IEGEAGGAGI GGEAGGACGI GGIECTGAEE CCGTCCTGCA CCAGGACTGG M O N I 2501 CGGCGTGGAG GTGCATAATG CCAAGACAAA GCCGCGGGAG GAGCAGTACA ACAGCACGTA CCGTGTGGTC AGCGTCCTCA SVLT R V V Y T S E O Y N В X V H N A ^ ©
- recentede gererregre CGAGAACCAC GIGCAAGGIC ICCAACAAAG CCCICCCAGC CCCCAICGAG AAAACCAICT CCAAAGCCAA AGGGCAGCCC CACGIICCAG AGGIIGIITC GGGAGGGICG GGGGAAGCIC ITIIGGIAGA GGIITCGGII ICCCGICGGG Ø O A K ¥ IS X T P I E ø L P SNKA C K 2601 CTGAATGGCA AGGAGTACAA GACTTACCGT TCCTCATGTT EYK L N G K 343
- GGGTCGCTGT AGCGGCACCT (c) A V CCCAGCGACA SDI ρ, TCCCGGGAAG AGATGACCAA GAACCAGGTC AGCCTGACCT GCCTGGTCAA AGGCTTCTAT TCCGAAGATA G F TCGGACTGGA CGGACCAGTT L V K Ö SLT CTTGGTCCAG > o z AGGGCCCTTC TCTACTGGTT T Σ R E S 2701 AGGIGIACAC CCTGCCCCCA GGACGGGGGT а Д TCCACATGTG 377
- GIGGCACCIG CACCGTGGAC TICITICCICI ACAGCAAGCI AAGAAGGAGA TGTCGTTCGA s × FFLY GCTGCCGAGG CGACGGCTCC D G TGCTGGACTC TTACCCGTCG GCCTCTTGTT GATGTTCTGG TGCGGAGGGC ACGACCTGAG L D S CGGAGAACAA CTACAAGACC ACGCCTCCCG A d d L Y K E N AATGGGCAGC O U 2801 GTGGGAGAGC CACCCTCTCG S 33 (3) 410
- AGAGGCCCAT GGCTCTGCAC AACCACTACA CGCAGAAGAG CCTCTCCCTG GCGTCTTCTC GGAGAGGGAC LSL N N TIGGIGATGI NHYT CCGAGACGTG H A GAACGTCTTC TCATGCTCCG TGATGCATGA CTTGCAGAAG AGTACGAGGC ACTACGTACT (12) Ξ s > ა ა ſz, N N GGCAGCAGGG TICTCGICCA CCGICGICCC 5 0 0 2901 AAGAGCAGGT K S R W 443
- ATTCGAAATT AATAAGCATG CGACGGCCCT AGAGTCCCTA AGGCTCGGTT GCCGCCGGGC GTTTTTTATT GTTAACTCAT GTTTGACAGC TTATCATGA TTATCGTAC GCTGCCGGGA TCTCAGGGAT TGCGAGCCAA CGGCGGCCCG CAAAAAATAA CAATTGAGTA CAAATGTCG AATAGTAGCT 3001 AATAAGCATG 477
- TGGGGTAGIT TAICACAGIT AAATIGCTAA CGCAGICAGG CACCGIGIAT GAAAICTAAC AATGGGCICA TGGICAICCT CGGCACCGIC ACGCCAICAA AIAGIGICAA TITAACGAII GCGICAGICC GIGGCACAIA CITIAGAIIG ITACGCGAGI AGCAGTAGGA GCCGIGGGAG 'Start Tet Resistance Coding Seguence 3101
- CIGTAGGCAT AGGCTIGGIT AIGCCGGTAC IGCCGGGCCT CTTGCGGGAI AICGICCAIT CGGACAGCAI CGCCAGICAC TAIGGCGIGC IGCIAGCGCT GACAICCGIA ICCGAACCAA IACGGCCAIG ACGGCCGGA GAACGCCCTA IAGCAGGIAA GGCTGICGIA GCGGICAGIG AIACCGCACG ACGAICGCGA 3201

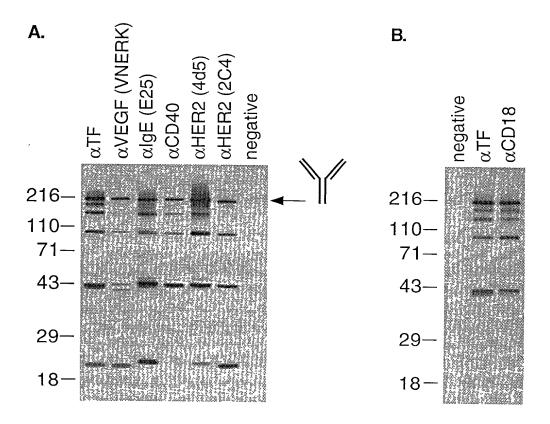


Figure 22